

Form PTO-1449
(Rev. 8-83)

U.S. DEPARTMENT OF COMM
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ATTY. DOCKET NO.
GRFN-020/01US

SERIAL NO.
09/144,838

JAN 29 1999

INFORMATION DISCLOSURE STATEMENT
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APPLICANT:
Michael A. Siani, et al.

FILING DATE
August 31, 1998

GROUP
1619 1627

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
P1						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
Taw	F1 EP 0,156,588	02.10.85	Europe				
	F2 EP 0,503,683	16.09.92	Europe				
	F3 WO 93/20098	14.10.93	International				
	F4 WO 95/00846	05.01.95	International				
	F5 WO 95/04543	16.02.95	International				
	F6 WO 95/34641	21.12.95	International				
	F7 WO 96/34878	07.11.96	International				
	F8 WO 94/01102	20.01.94	International				
	F9 WO 98/28434	02.07.98	International				

OTHER PUBLICATIONS (including Author, Title, Date, Pertinent Pages, Etc.)

Taw	D1	Beall et al., "Site-directed mutagenesis of monocyte chemoattractant protein-1 identifies two regions of the polypeptide essential for biological activity," <i>Biochemistry</i> (1996) 313:633-640
	D2	Ben-Efraim et al., "Secondary structure and membrane localization of synthetic segments and a truncated from of the IsK (minK) protein," <i>Biochemistry</i> (1994) 33:6966-6973
	D3	Bleul et al., "The lymphocyte chemoattractant SDF-1 is a ligand for LESTR/fusion and blocks HIV-1 entry," <i>Nature</i> (1996) 382:829
	D4	Boschoff et al., "Angiogenic and HIV-inhibitory functions of KSHV-encoded chemokines," <i>Science</i> (1997) 278:290-294

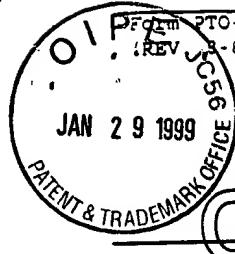
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<i>tdw</i>	D5	Brenner et al., "Encoded combinatorial chemistry," Proc. Natl. Acad. Sci. U.S.A. (1992) 89:5381-5383
<i>tdw</i>	D6	Bunin et al., "The combinatorial synthesis and chemical and biological evaluation of a 1,4-benzodiazepine library," Proc. Natl. Acad. Sci. USA (1993) 91:4708-4712
<i>Not in file</i>	D7	Campell et al., "Chemokines and the arrest of lymphocytes rolling under flow conditions," Science (1998) 279:381-384
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<i>tdw</i>	D9	Canne et al., "A general method for the synthesis of thioester resin linkers for use in the solid phase synthesis of peptide-alpha-thioacids," Tetrahedron Lett. (1995) 36:1217-1220
<i>Not in file</i>	D10	Canne et al., "Solid phase protein synthesis by chemical ligation of unprotected peptide segments in aqueous solution," Poster #147, pp.1-6, The 1997 American Peptide Symposium, Nashville, Tennessee, U.S.A., June 14-19, 1997
<i>tdw</i>	D11	Carrasco et al., "Direct monitoring of organic reactions on polymeric supports," Tetrahedron Letters (1997) 38:6331-6334
<i>tdw</i>	D12	Clark-Lewis et al., "Structural requirements for interleukin-8 function identified by design of analogs and CXC chemokine hybrids," J. Biol. Chem. (1994) 269:16075-16081
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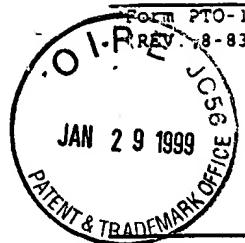
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	D19	Fairclough and Cantor, "The use of singlet-singlet energy transfer to study macromolecular assemblies," <i>Meth. Enzymol.</i> (1978) 48:347-379
	D20	Furka et al., <i>Abstr. 14th Int. Congr. Biochem.</i> , Prague, Czechoslovakia, Vol 5, pg 47. <i>Abstr. 10th Intl. Symp. Med. Chem.</i> , Budapest, Hungary, (1988), pg 288
	D21	Gaertner et al., "Site-specific religation of G-CSF fragments through a thioester bond," <i>Bioconj. Chem.</i> (1994) 5(4):333-338
	D22	Gallop et al., "Applications of combinatorial technologies to drug discovery, 1," <i>J. Med. Chem.</i> (1994) 37:1233-1251
	D23	Gauthier et al., "A new sensitive fluorogenic substrate for papain based on the sequence of the cystatin inhibitory site," <i>Arch. Biochem. Biophys.</i> (1993) 306:304-308
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	D27	Houghten et al., "General method for the rapid solid-phase synthesis of large number of peptides," <i>Proc. Natl. Acad. Sci. U.S.A.</i> (1985) 82:5131-35
	D28	Houghten et al., "Generation and use of synthetic peptide combinatorial libraries for basic research and drug discovery," <i>Nature</i> (1991) 354:84-86
	D29	Hromas et al., "Cloning and characterization of exodus, a novel beta-chemokine," <i>Blood</i> (1997) 89(9):3315-3322
	D30	Lu et al., "Probing intermolecular main chain hydrogen bonding in serine proteinase-protein inhibitor complexes," <i>Biochemistry</i> (1997) 36(4): 673-679
↓ dotted grid file	D31	Maggiora et al., "A general method for the preparation of internally quenched fluorogenic protease substrates using solid-phase peptide synthesis," <i>J. Med. Chem.</i> (1992) 35:3727-3730
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tdw	D33	Moos et al., "Recent advances in the generation of molecular diversity," <i>Annual Reports in Medicinal Chemistry</i> (1993) 28:315-324
tdw	D34	Muir and Kent, "The chemical synthesis of proteins," <i>Curr. Opin. Biotechnology</i> (1993) 4:420-427

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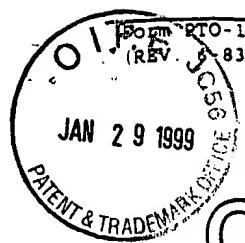
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OTHER PUBLICATIONS (including Author, Title, Date, Pertinent Pages, Etc.)

<i>ydw</i>	D35	Needels et al., "Generation and screening of an oligonucleotide-encoded synthetic peptide library," <i>Proc. Natl. Acad. Sci. USA</i> (1993) 90:10700-10704
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<i>✓</i>	D39	Oppenheim, "Overview of chemokines," <i>Adv. Exp. Med. Biol.</i> (1993) 351:183-186
<i>✓</i>	D40	Pavia et al., "The generation of molecular diversity," <i>Bioorganic and Medicinal Chem. Lett.</i> (1993) 3:387-396
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	D42	Proudfoot et al., "Extension of recombinant human RANTES by the retention of the initiating methionine produces a potent antagonist," <i>J.B.C.</i> (1996) 271:2599-2603
	D43	Rajarathnam et al., "Neutrophil activation by monomeric interleukin-8," <i>Science</i> (1994) 264:90-92
	D44	Schnöller et al., "In situ neutralization in Boc-chemistry solid phase peptide synthesis," <i>Int. J. Peptide Protein Res.</i> (1992) 40:180-193
<i>✓</i>	D45	Schnöller and Kent, "Constructing proteins by dovetailing unprotected synthetic peptides: backbone-engineered HIV protease," <i>Science</i> (1992) 256:221-225
<i>Not in file</i>	D46	Siani et al., "Rapid modular synthesis of chemokines and analogues," Poster, pp. 1-13, International Business Communications 3 rd Annual International Conference on Chemokines, San Francisco, CA, U.S.A., September 30-October 1 st , 1996.
	D47	Siani, et al., "Rapid modular total chemical synthesis of chemokines based on genome sequence data," Poster #360, pp. 1-6, The 15 th American Peptide Symposium, Nashville, Tennessee, U.S.A., June 14-17, 1997
	D48	Siani et al., "Rapid modular synthesis of SDF-1 α with full biological activities," Poster, pp. 1-12, NMHCC, Chemokines and Host-Cell Interaction Conference, Baltimore, Maryland, U.S.A., January 1997
<i>tdw</i>	D49	Simmons et al., "Potent inhibition of HIV-1 infectivity in macrophages and lymphocytes by a novel CCR5 antagonist," <i>Science</i> (1997) 276:276-279
<i>tdw</i>	D50	Smith G.P., "Filamentous fusion phage: novel expression vectors that display cloned antigens on the virion surface," <i>Science</i> (1985) 228:1315-1317

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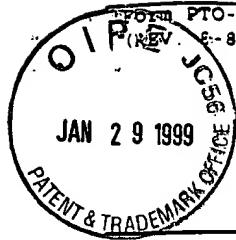
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OTHER PUBLICATIONS (including Author, Title, Date, Pertinent Pages, Etc.)

✓	D51	Sticht et al., "Structure and activity of a chimeric interleukin-8-melanoma-growth-stimulatory-activity protein," <i>Eur. J. Biochem.</i> (1996) 235:26-35
✓	D52	Strahilevitz et al., "Spectrum of antimicrobial activity and assembly of dermaseptin-b and its precursor form in phospholipid membranes," <i>Biochemistry</i> (1994) 33:10951-10960
✓	D53	Tam et al., "Peptide synthesis using unprotected peptides through orthogonal coupling methods," <i>Proc. Natl. Acad. Sci. USA</i> (1995) 92:12485-12489
✓	D54	Ueda et al., "Chemically synthesized SDF-1 alpha analogue, N33A, is a potent chemotactic agent for CXCR4/Fusion/LESTR-expressing human leukocytes," <i>J. Biol. Chem.</i> (1997) 272:24966-24970
✓	D55	Wernette-Hammond et al., "Receptor recognition and specificity of interleukin-8 is determined by residues that cluster near a surface-accessible hydrophobic pocket," <i>J. Biol. Chem.</i> (1996) 271:8228-8235
✓	D56	Wilken et al., "Solid Phase Chemical Ligation-A Paradigm for Post Genomic Pharmaceuticals," Fifth International Symposium on Solid Phase Synthesis and Combinatorial Chemical Libraries, London, England, U.K., (September 4, 1997)
Not in file	D57	Wilken and Kent, "Chemical protein synthesis," <i>Curr. Opin. Biotech.</i> (1998) 9:412-426
✓	D58	Wu et al., "Resonance energy transfer: methods and applications," <i>Analytical Biochem.</i> (1994) 218:1-13
✓	D59	Zhang et al., "Preparation of functionally active cell-permeable peptides by single-step ligation of two peptide modules," <i>Proc. Natl. Acad. Sci. USA</i> (1998) 95:9184-9189
✓	D60	Zuckermann et al., "Discovery of nanomolar ligands for 7-transmembrane G-protein-coupled receptors from a diverse N-(substituted) glycine peptoid library," <i>J. Med. Chem.</i> (1994) 37:2678-2685

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F1	EP 0,156,588	02.10.85	Europe				
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F3	WO 93/20098	14.10.93	International				
F4	WO 95/00846	05.01.95	International				
F5	WO 95/04543	16.02.95	International				
F6	WO 95/34641	21.12.95	International				
F7	WO 96/34878	07.11.96	International				
F8	WO 94/01102	20.01.94	International				
F9	WO 98/28434	02.07.98	International				

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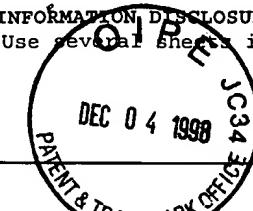
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<i>Nat. on file</i>	D32	Moore et al., "Molecular mimicry of human cytokine and cytokine response pathway genes by KSHV," <i>Science</i> (1996) 274:1739-1744
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Not in files	D46	Siani et al., "Rapid modular synthesis of chemokines and analogues," Poster, pp. 1-13, International Business Communications 3 rd Annual International Conference on Chemokines, San Francisco, CA, U.S.A., September 30-October 1 st , 1996.
	D47	Siani, et al., "Rapid modular total chemical synthesis of chemokines based on genome sequence data," Poster #360, pp. 1-6, The 15 th American Peptide Symposium, Nashville, Tennessee, U.S.A., June 14-17, 1997
	D48	Siani et al., "Rapid modular synthesis of SDF-1 α with full biological activities," Poster, pp. 1-12, NMHCC, Chemokines and Host-Cell Interaction Conference, Baltimore, Maryland, U.S.A., January 1997
	D49	Simmons et al., "Potent inhibition of HIV-1 infectivity in macrophages and lymphocytes by a novel CCR5 antagonist," <i>Science</i> (1997) 276:276-279
✓	D50	Smith G.P., "Filamentous fusion phage: novel expression vectors that display cloned antigens on the virion surface," <i>Science</i> (1985) 238:1315-1317

EXAMINER

T. Wenzel

DATE CONSIDERED

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Michael A. Siani, et al.FILING DATE
August 31, 1998GROUP
16157

OTHER PUBLICATIONS (including Author, Title, Date, Pertinent Pages, Etc.)

<i>TM</i>	D51	Sticht et al., "Structure and activity of a chimeric interleukin-8-melanoma-growth-stimulatory-activity protein," <i>Eur. J. Biochem.</i> (1996) 235:26-35
	D52	Strahilevitz et al., "Spectrum of antimicrobial activity and assembly of dermaseptin-b and its precursor form in phospholipid membranes," <i>Biochemistry</i> (1994) 33:10951-10960
	D53	Tam et al., "Peptide synthesis using unprotected peptides through orthogonal coupling methods," <i>Proc. Natl. Acad. Sci. USA</i> (1995) 92:12485-12489
	D54	Ueda et al., "Chemically synthesized SDF-1 alpha analogue, N33A, is a potent chemotactic agent for CXCR4/Fusion/LESTR-expressing human leukocytes," <i>J. Biol. Chem.</i> (1997) 272:24966-24970
	D55	Wernette-Hammond et al., "Receptor recognition and specificity of interleukin-8 is determined by residues that cluster near a surface-accessible hydrophobic pocket," <i>J. Biol. Chem.</i> (1996) 271:8228-8235
	D56	Wilken et al., "Solid Phase Chemical Ligation-A Paradigm for Post Genomic Pharmaceuticals," Fifth International Symposium on Solid Phase Synthesis and Combinatorial Chemical Libraries, London, England, U.K., (September 4, 1997)
<i>NM on file</i>	D57	Wilken and Kent, "Chemical protein synthesis," <i>Curr. Opin. Biotech.</i> (1998) 9:412-426
<i>DO</i>	D58	Wu et al., "Resonance energy transfer: methods and applications," <i>Analytical Biochem.</i> (1994) 218:1-13
<i>TM</i>	D59	Zhang et al., "Preparation of functionally active cell-permeable peptides by single-step ligation of two peptide modules," <i>Proc. Natl. Acad. Sci. USA</i> (1998) 95:9184-9189
<i>TM</i>	D60	Zuckermann et al., "Discovery of nanomolar ligands for 7-transmembrane G-protein-coupled receptors from a diverse N-(substituted) glycine peptoid library," <i>J. Med. Chem.</i> (1994), 37:2678-2685

EXAMINER

T. Weisner

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	P1					

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
T. W.	F10	WO 98/56807	12/17/98	PCT		—	—

OTHER PUBLICATIONS (including Author, Title, Date, Pertinent Pages, Etc.)

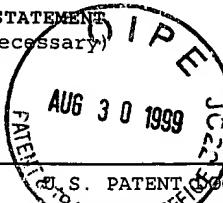
T. W.	D61	Athanassopoulos et al., "Phase Change During Peptide Synthesis," <u>Innovation Perspect. Solid Phase Synth. Comb. Libr., Collect. Pap., Int. Symp.</u> , 4 th (1996) Meeting Date 1995, 243-246. Editor(s): Epton, Roger. Publisher: Mayflower Scientific, Birmingham, UK - <u>Chemical Abstracts</u> , Vol. 127, No. 5
	D62	Canne et al., "Extending the Applicability of Native Chemical Ligation," <u>J. Am. Chem. Soc.</u> 118:5891-5896 (1996)
	D63	Gaertner et al., "Chemical Ligation of Proteins and Other Macromolecules," <u>Peptide: Chemistry, Structure and Biology</u> , <u>Proc. Of the XIV Am. Pept. Symp.</u> , June 1995, 18-23, Mayflower Sci. Ltd., England
	D64	Lockhart et al., "The Cloning, Expression and Purification of Cervine Interleukin 2", <u>Cytokine</u> , (1996) 8(8): 603-612 - <u>Chemical Abstracts</u> , Vol. 125, No. 21
	D65	Werlen et al., "Site-Specific Conjugation of an Enzyme and an Antibody Fragment," <u>Bioconjugate Chemistry</u> , (1994) 5(5): 411-417
↓	D66	Yoshida et al., "Molecular Cloning of a Novel Human CC Chemokine EBI1-ligand Chemokine That Is a Specific Functional Ligand for EBI1, CCR7", <u>Journal of Biological Chemistry</u> , (1997) 272(21):13803-13809

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T. W.

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
Tdw	P1 5,508,261	16 Apr '96	Moyle et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
Tdw	F11 WO 92/22368	12 Dec '92	PCT				
✓	F12 WO 93/06844	15 Apr '93	PCT				
✓	F13 WO 97/30161	21 Aug '97	PCT				

OTHER PUBLICATIONS (including Author, Title, Date, Pertinent Pages, Etc.)

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